

1553 Manchester Decoder

SERIES: MAD-8783

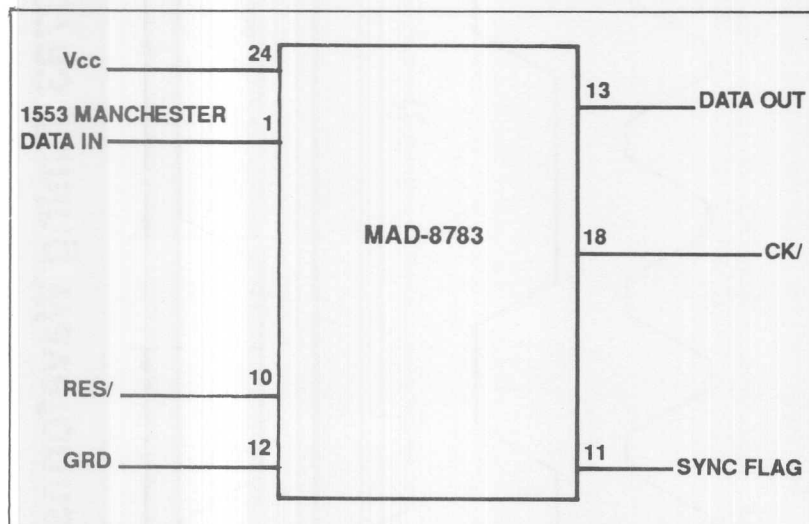
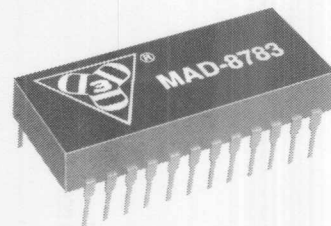
(20 MBAUD)

**data
delay
devices, inc.**

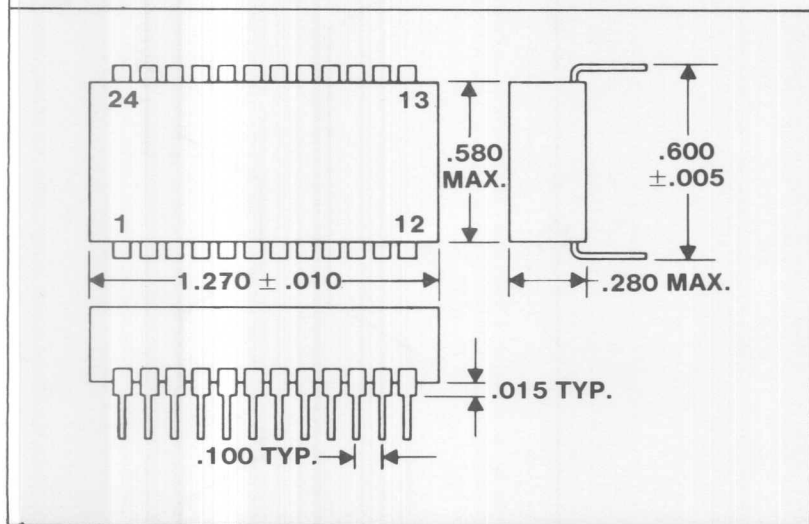


Specifications:

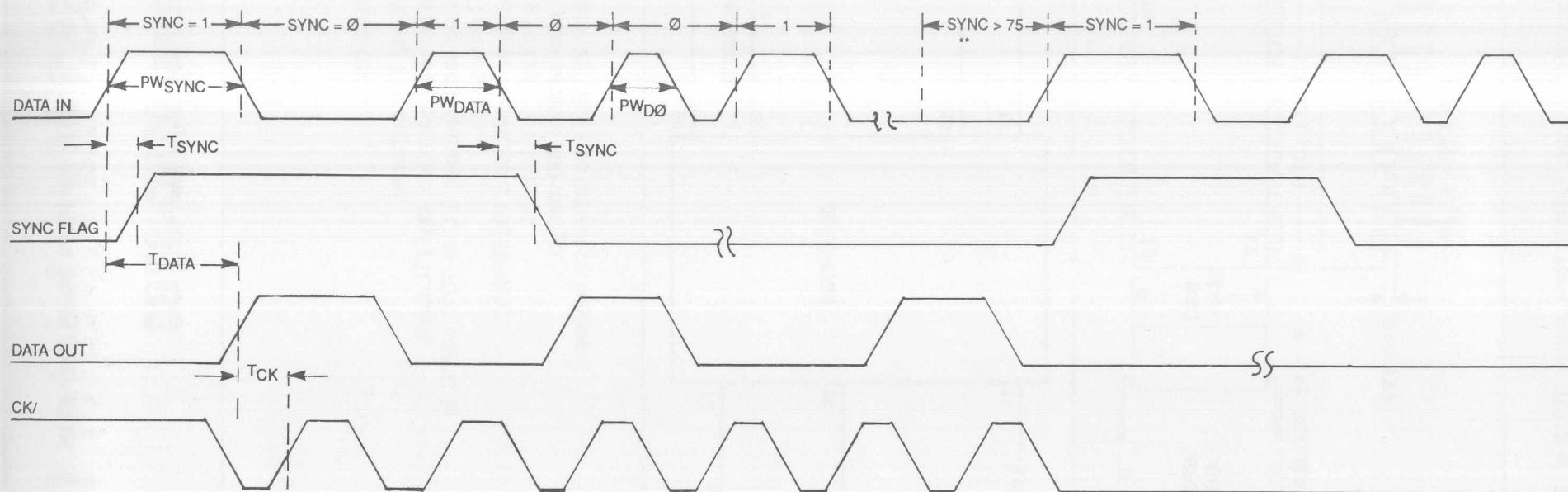
- Completely TTL buffered.
- Output fan-out: Fast Schottky TTL loads.
- Operating temperature: 0°C to 70°C (-55°C to +125°C on request).
- Temperature coefficient: 100 PPM/°C.
- Supply voltage: 5 Vdc \pm 5%.
- Power dissipation: 500 mw typ.
- Data rate: 20 MBIT/sec (others on request).



**See Other Side
For Timing Waveform**



MAD-8783 Timing Waveforms



$PW_{SYNC} = 75 \text{ nsec} \pm 10\%$

$PW_{DATA} = 50 \text{ nsec} \pm 10\%$

$PW_{D0} = 25 \text{ nsec} \pm 10\%$

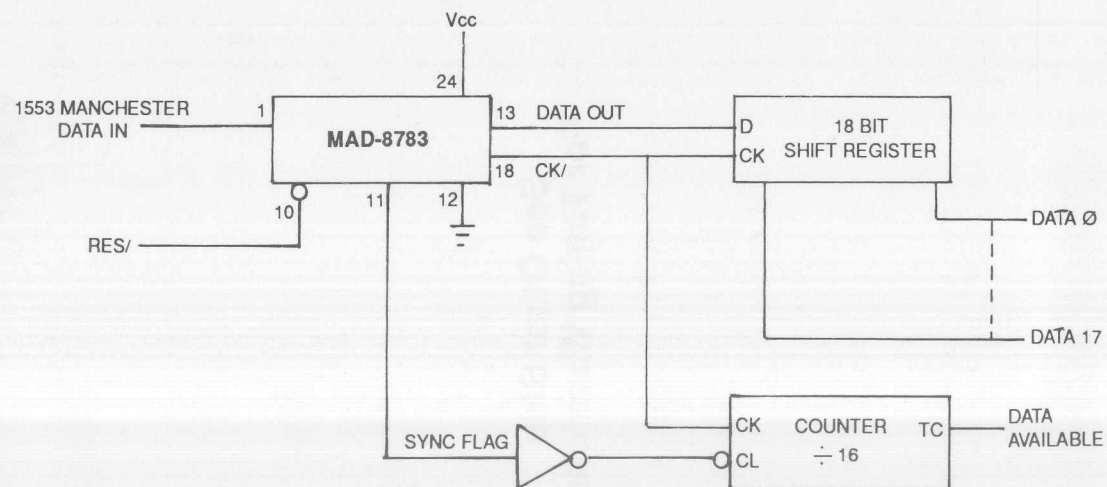
$PW_{RESET} = 10 \text{ nsec min.}$

$T_{SYNC} = 10 \text{ nsec typ.}$

$T_{DATA} = 70 \text{ nsec typ.}$

$T_{CK} = 25 \text{ nsec typ.}$

****Note:** The MAD will recognize as a Sync any pulse $\geq 62.5 \text{ nsec}$.



Typical Decoder Interface